

Claims

What we claim is:

1. A recycling apparatus for sub four inch news screen fines , comprising:
 - a first vibrating screen of first size, and
 - a second vibrating screen of second size, and
 - wherein said second screen is smaller than one inch.
2. The apparatus of claim 1 wherein said first vibrating screen is larger than two feet in width.
3. The apparatus of claim 1 wherein said first vibrating screen classifies to less than 3.5 inches.
4. The apparatus of claim 1 further comprising:
 - an adjustable pneumatic separator comprised of an air stream flowing up from below, and
 - an air stream being exhausted from above, and
 - the pneumatic separator is about the same physical dimension as said second vibrating screen.
5. The apparatus of claim 4 wherein said pneumatic separator classifies material
 - larger than about 0.1 inches and less than about 3.5 inches.
6. A recycling method comprising the steps of:

starting with compressed material no larger than about 6 inches, and
classifying to first size, and
classifying to a second size, and
wherein the second size is less than about one inch.

7. The method of claim 6 further comprising the step of:

pneumatic separation comprised of an air stream flowing up from below, and
an air stream being exhausted from above, and comprising means for the operator to
adjust the quantity of the air from below and the quantity of exhaust air.

8. The method of claim 7 wherein said pneumatic separator classifies material larger than about
0.1 inches and less than about 3.5 inches into a heavy portion and a light portion.

9. The method of claim 8 wherein said heavy portion is conveyed to a crossbar magnet
for additional classification.

10. A recycling apparatus for classifying material less than about six inches, comprising:
a first vibrating screen larger than two feet in width which classifies to less than
about 3.5 inches, and
a second vibrating screen larger than two feet in width which classifies to less
than about one inch, and
a pneumatic separator, larger than two feet in width, comprised of an air stream

flowing up from below and an air stream being exhausted from above which separates a heavy portion from a light portion of the greater than one inch portion, and

a rotary airlock, drop box and cyclone for processing the light portion, and a cross belt magnet for removing metals from the heavy portion.